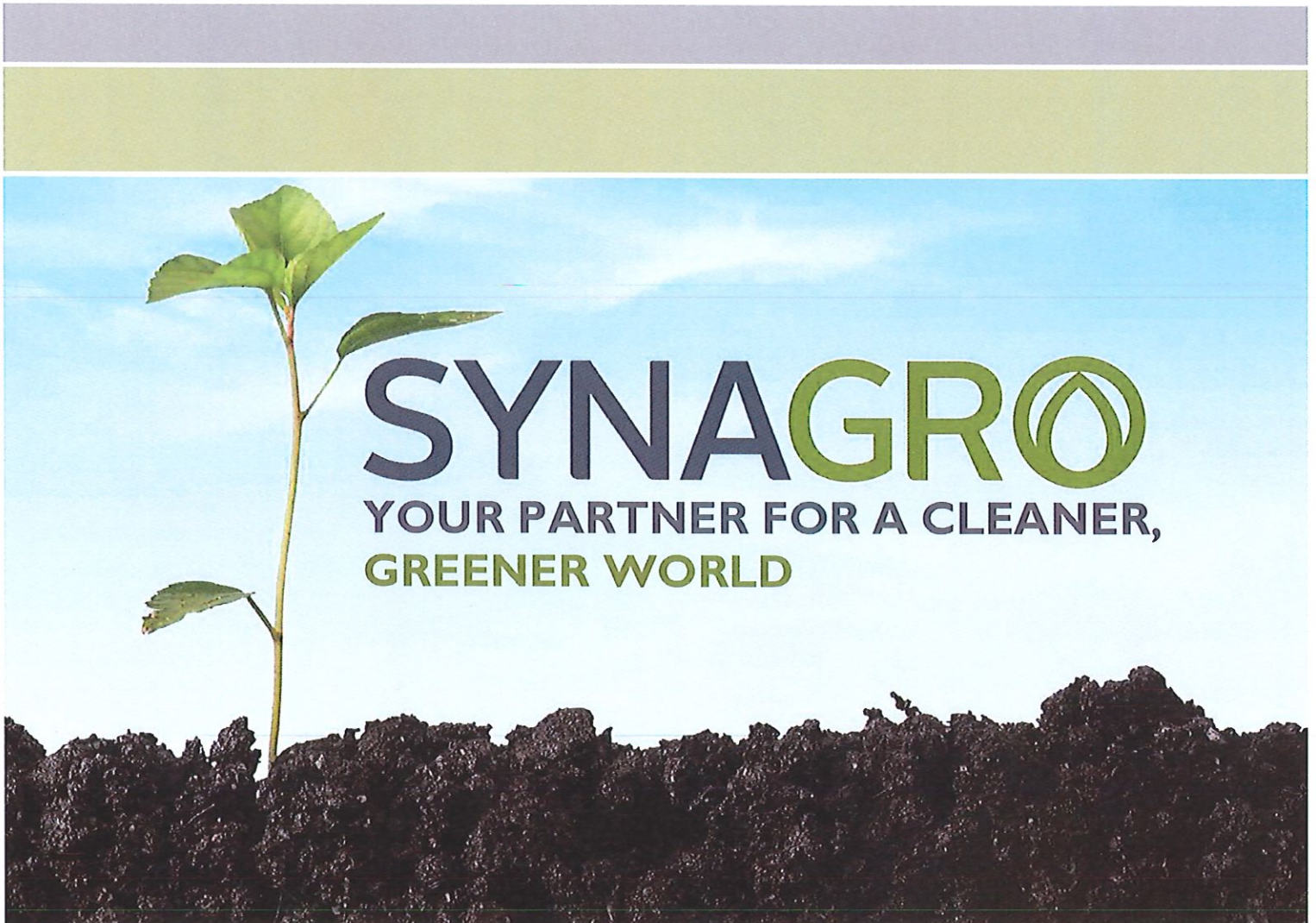


LAND APPLICATION OF BIOSOLIDS
ALFRED W. HAUSER

KW 45 (FIELDS 1-2)
KING WILLIAM COUNTY, VIRGINIA
DECEMBER 2021



1681 Tappahannock Blvd
Tappahannock, VA 22560
www.synagro.com



DECEMBER 7, 2021

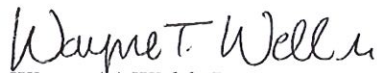
Mr. Neil Zahradka
Department of Environmental Quality
Piedmont Regional Office
4949-A Cox Road
Glen Allen, VA 23060

Dear Mr. Zahradka,

Transmitted herein for your consideration is land application site for Alfred W. Hauser. (designated as KW 45, fields 1-2), located in King William County, Virginia. This submission contains strictly site specific information. Please refer to the operations and maintenance manual submitted under separate cover for all non-site specific information.

Do not hesitate to contact me at (804) 443-2170 should you have any questions or require additional information.

Sincerely,


Wayne T. Webb Jr.

Technical Services Manager



FIELD SUMMARY SHEET

Alfred W. Hauser

KW45

SYNAGRO FIELD #	GROSS ACRES	NET ACRES	FSA TRACT #	FIELD TYPE	OWNER
45-01	58.9	58.9		Silviculture	Langbourne LLC
45-02	49.2	49.2		Silviculture	Langbourne LLC
TOTALS:	108.1	108.1	12/7/2021		

TAX ID LANDOWNER IDENTIFICATION SHEET

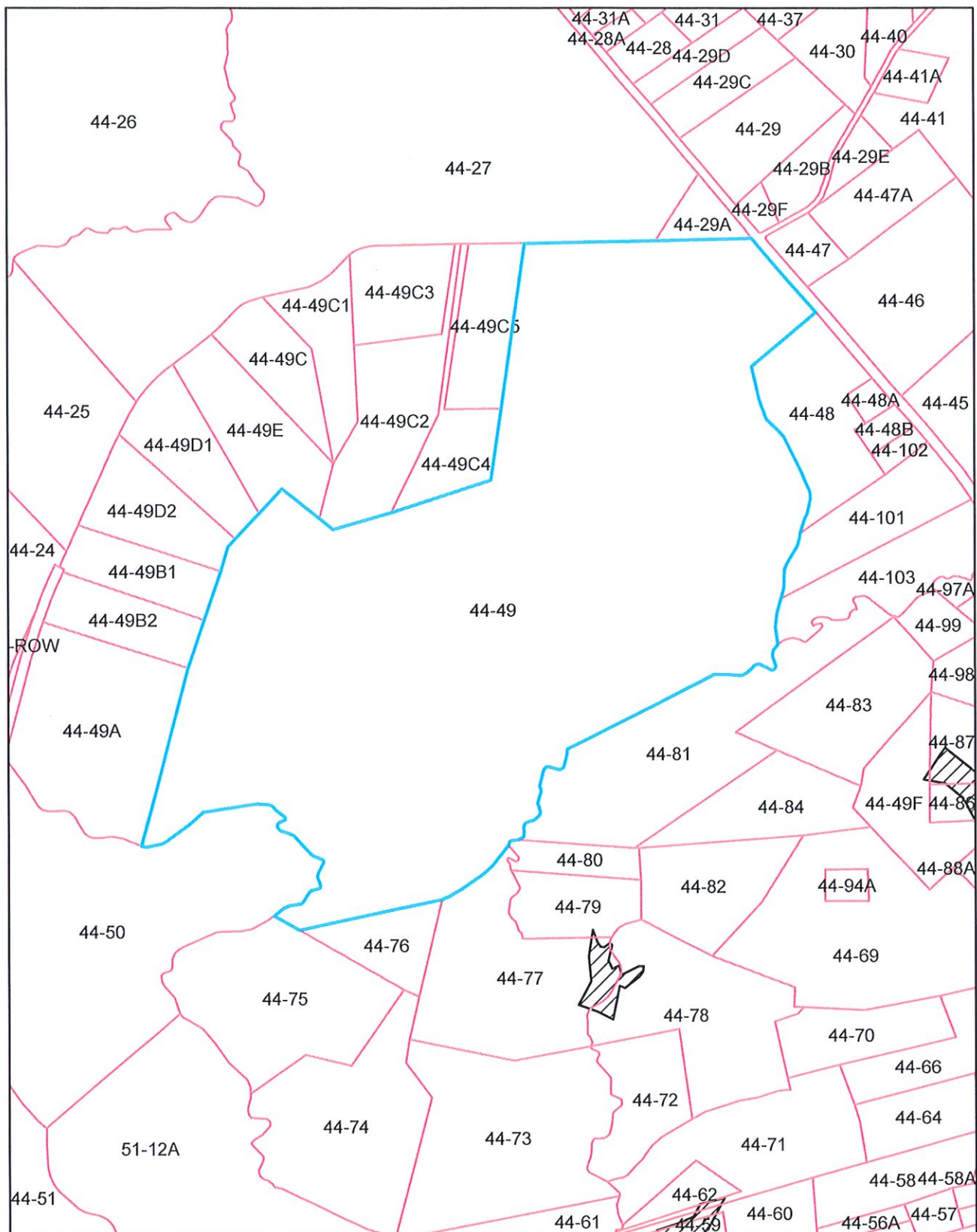
Landowner	Field Number	Tax ID
Langbourne LLC	45-01	44-49
Langbourne LLC	45-02	44-49

Field Number	Latitude (North)	Longitude (West)
45-01	37.642°	-77.057°
45-02	37.636°	-77.062°

*Latitude and Longitude are a random point determined by ArcView program

Haul Route:

The Location maps in conjunction with the above latitude and longitude coordinates are a route planning tool meant to be a guide to indicate suggested haul routes for various preferences: to include but not limited to all federal, state, and local granted STAA access routes.



1 inch = 833 feet

TAX MAP

1:10,000

Disclaimer: Information shown on these maps are derived from public records that are constantly undergoing change and do not replace a site survey, and is not warranted for content or accuracy. The County does not guarantee the positional or thematic accuracy of the GIS data. The GIS data or cartographic digital files are not legal representation of any of the features in which it depicts, and disclaims any assumption of the legal status of which it represents.

Farm Summary Report

Plan: **New Plan** **Spring, 2022 - Summer, 2026**

Farm Name: **New Farm**
Location: King William
Specialist: Wayne T. Webb Jr.
N-based Acres: 108.1
P-based Acres: 0.0

Tract Name: **KW45**
FSA Number: 0
Location: King William

Field Name: **1**
Total Acres: 58.90 Usable Acres: 58.90
FSA Number: 0
Tract: KW45
Location: King William
Slope Class: D Hydrologic Group: C

Riparian buffer width: 0 ft
 Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Soils:

PERCENT	SYMBOL	SOIL SERIES
31	22F	Nevarc Remlik
61	10B	Emporia
1	26A	Slagle
7	26B	Slagle

Field Warnings:

Environmentally Sensitive Soils due to:

Soils with potential for leaching based on soil texture or excessive drainage

Soils with perent slope in excess of 15%

Crop Rotation:

PLANTED	YIELD	CROP NAME
---------	-------	-----------

Field Name: 2
Total Acres: 49.20 **Usable Acres:** 49.20
FSA Number: 0
Tract: KW45
Location: King William
Slope Class: B **Hydrologic Group:** C

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
	[NO TEST]			

Soils:

PERCENT	SYMBOL	SOIL SERIES
67	1A	Altavista
9	3A	Bibb Kinston
21	29D	Tarboro
3	30A	Tomotley

Field Warnings:

Environmentally Sensitive Soils due to:

Soils with potential for leaching based on soil texture or excessive drainage

Soils with high potential for subsurface lateral flow based on soil texture and poor drainage

Soils with percent slope in excess of 15%

Crop Rotation:

PLANTED	YIELD	CROP NAME
---------	-------	-----------

ENVIRONMENTALLY SENSITIVE AREAS

Field	Reason for Sensitive Area
45-01	High Leaching Potential (Map Units 22F - 30.9%)
45-02	High Water Potential (Map Units 3A,30A - 12.2%) Flooding Potential (Map Units 3A - 9.1%) High Leaching Potential (Map Units 29D - 20.7%)

King William County Soils that are Environmentally Sensitive

Soil Map Unit	Series Name	Time of year		Environmental
		High Water	Flooded	
3A	Bibb/Kinston	Nov-June	Nov-June	Drainage
4A	Bohicket	Nov-June	Nov-June	
5A	Bojac	Jan-Dec		Leaching
6A, 6B	Bojac			Leaching
7A	Catpoint			Leaching
8A	Conetoe			Leaching
9A	Daleville	Nov-May		
14A	Kenansville			Leaching
15A	Lanexa	Jan-Dec	Jan-Dec	Drainage
16A	Mattan	Jan-Dec	Jan-Dec	Drainage
18A	Myatt	Nov-April		
20A	Osier	Nov-March		Drainage
22D, 22F	Remilk/Nevarc			Leaching
23A	Riverview		Dec-March	
24A	Roanoke	Nov-May		
29B, 29D, 29F	Tarboro			Leaching
30A	Tomotley	Nov-April		
32A	Wehadkee	Nov-May	Nov-May	

Map Legend



House/Dwelling with a well

- 200' buffer-dwelling (with conditions for reduction);
- 100' buffer-well



Rock Outcrop

- 25' buffer



Limestone Outcrop / Closed Sinkholes

- 50' buffer



Well/Springs/Open Sinkholes

- 100' buffer



Lake/Pond

- 35' w/vegetative buffer; 100' without vegetative buffer



Slope which exceeds 15%



"PAS" - Publicly Accessible Site

- 200' buffer



Stream/River

- 35' w/vegetative buffer; 100' without vegetative buffer



Agricultural/Drainage Ditch

- 10' buffer

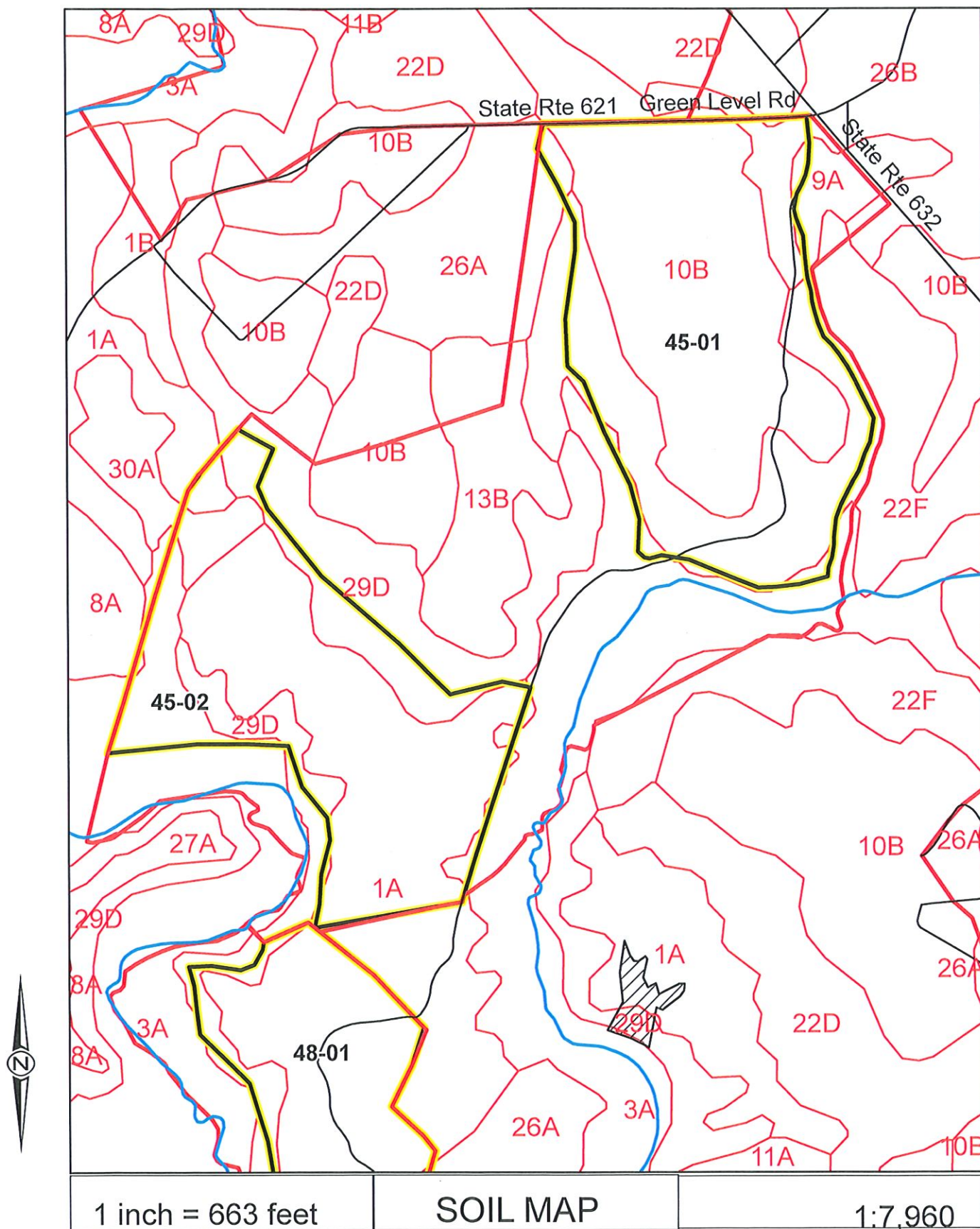


Field Boundary



Property Line

- 100' buffer unless waiver issued

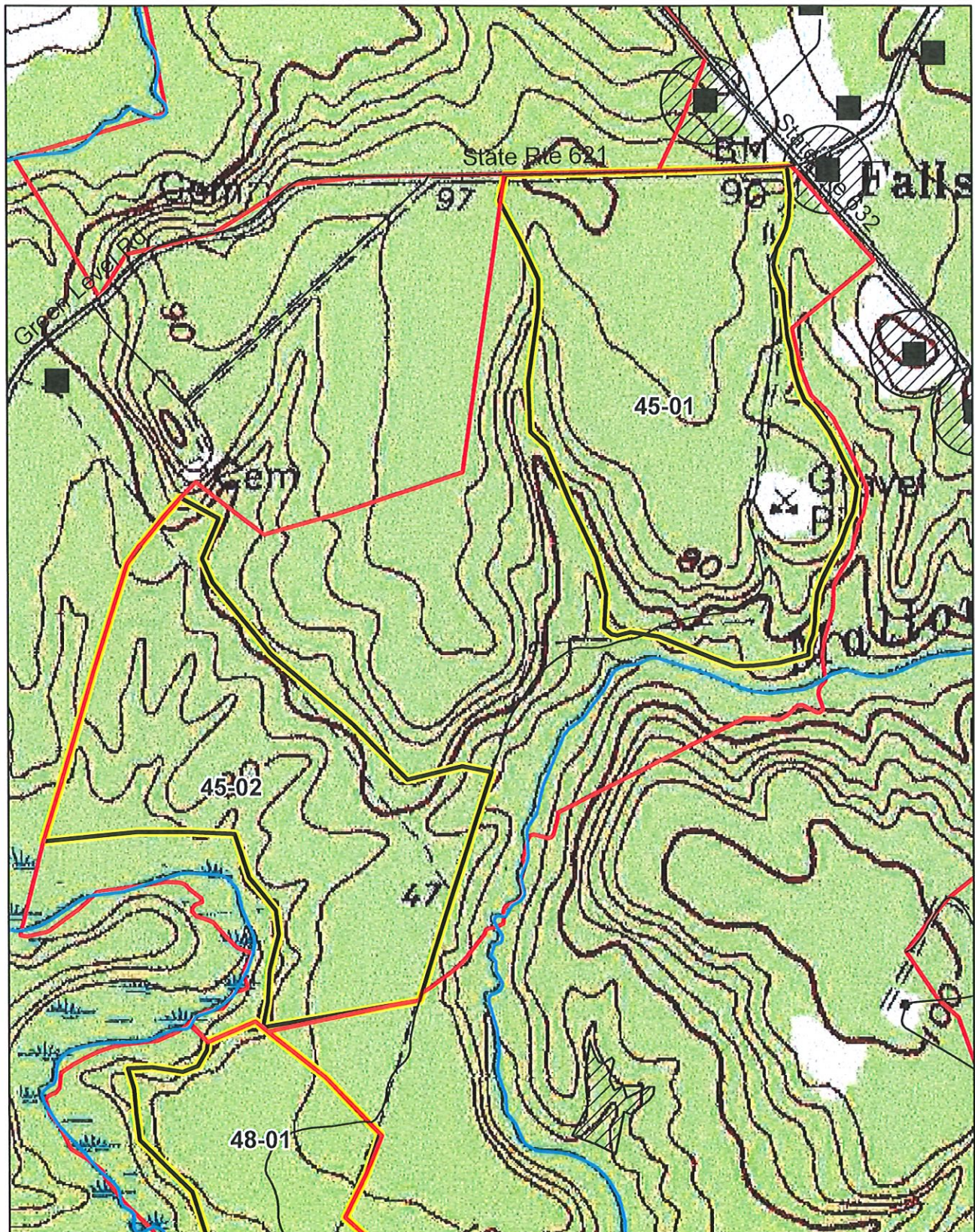




1 inch = 660 feet

AERIAL MAP

1:7,920

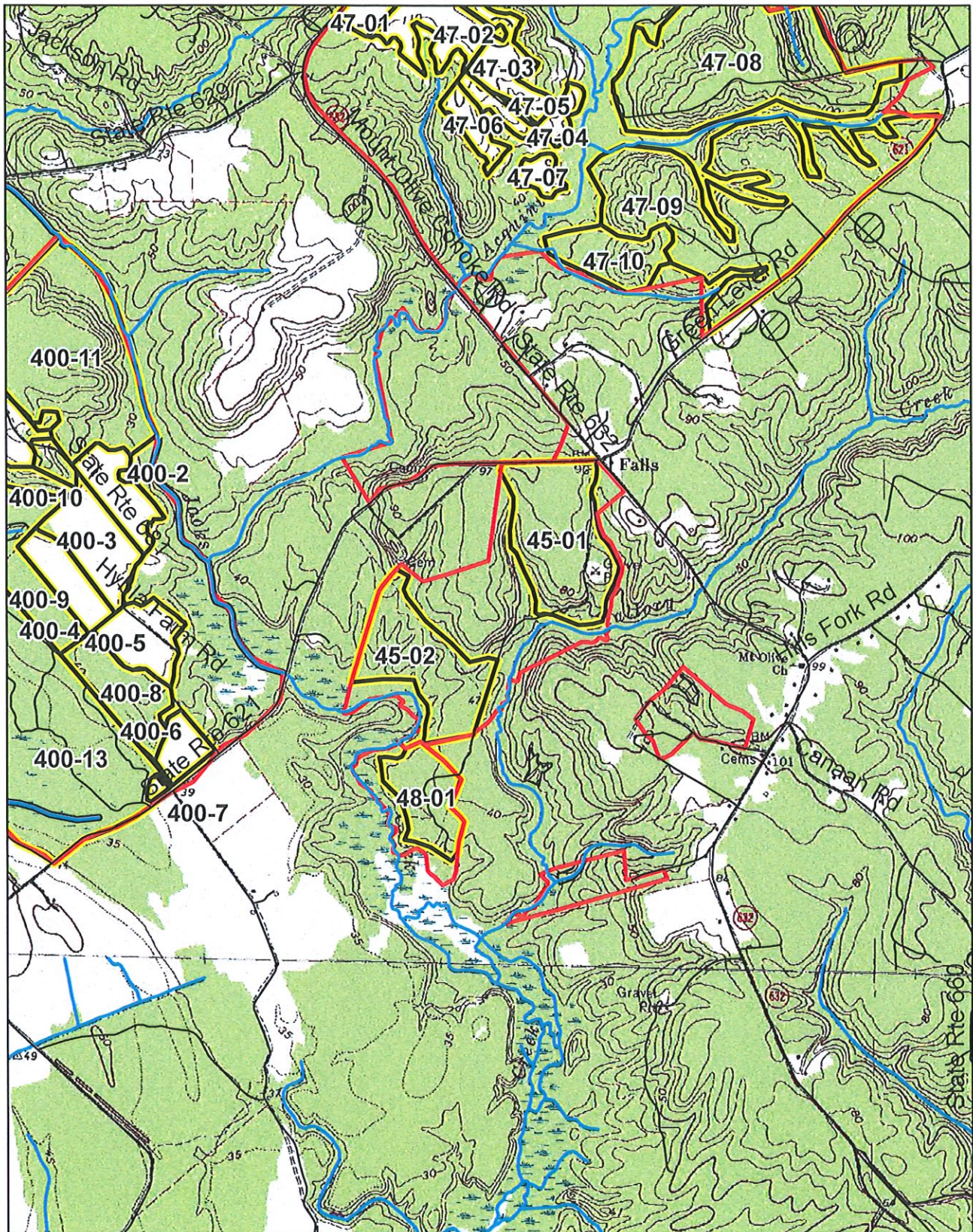


1 inch = 660 feet

TOPO MAP

1:7,920

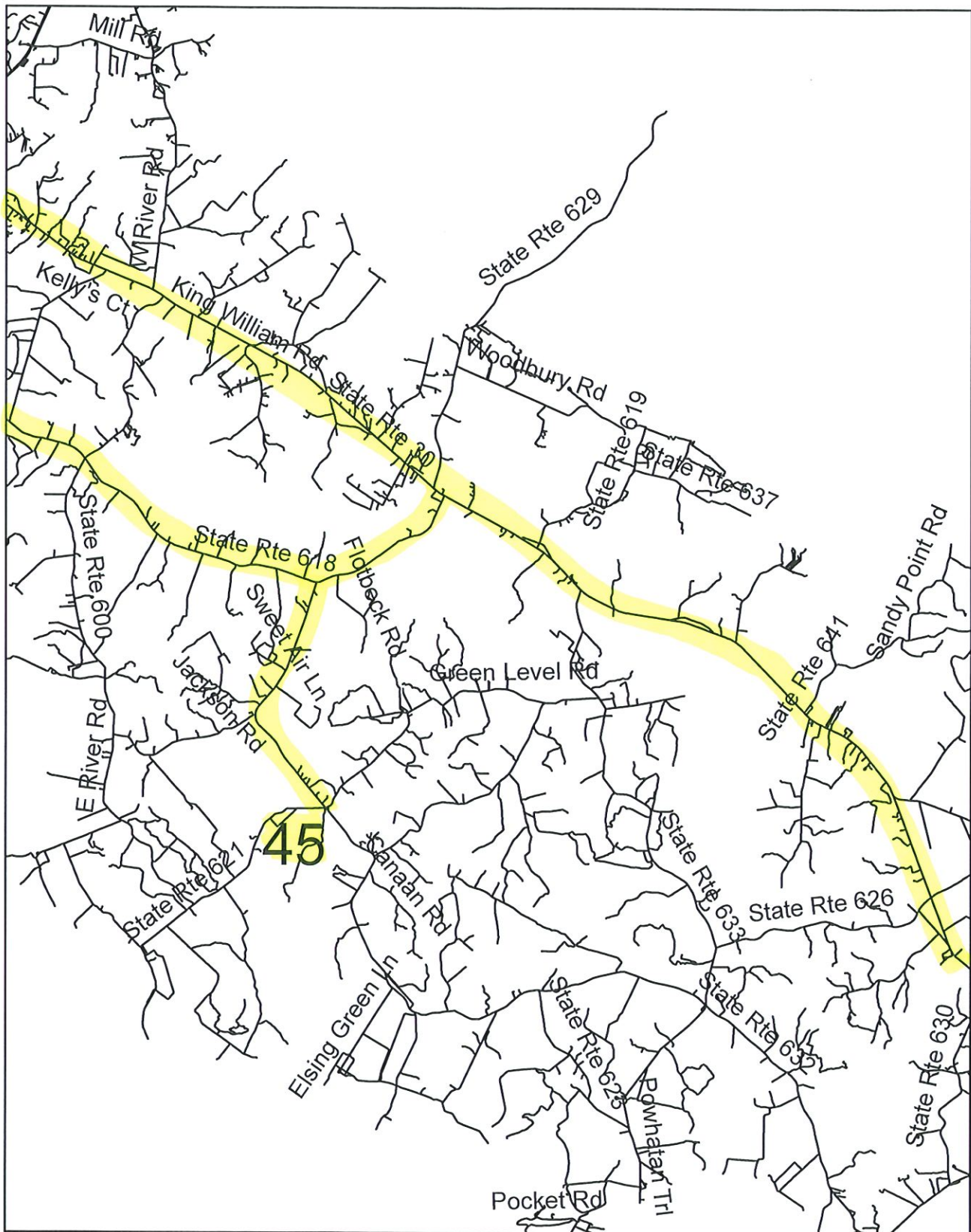
FIELD	ACRES
45-01	58.9
45-02	49.2



1 inch = 2,000 feet

TOPO MAP

1:24,000

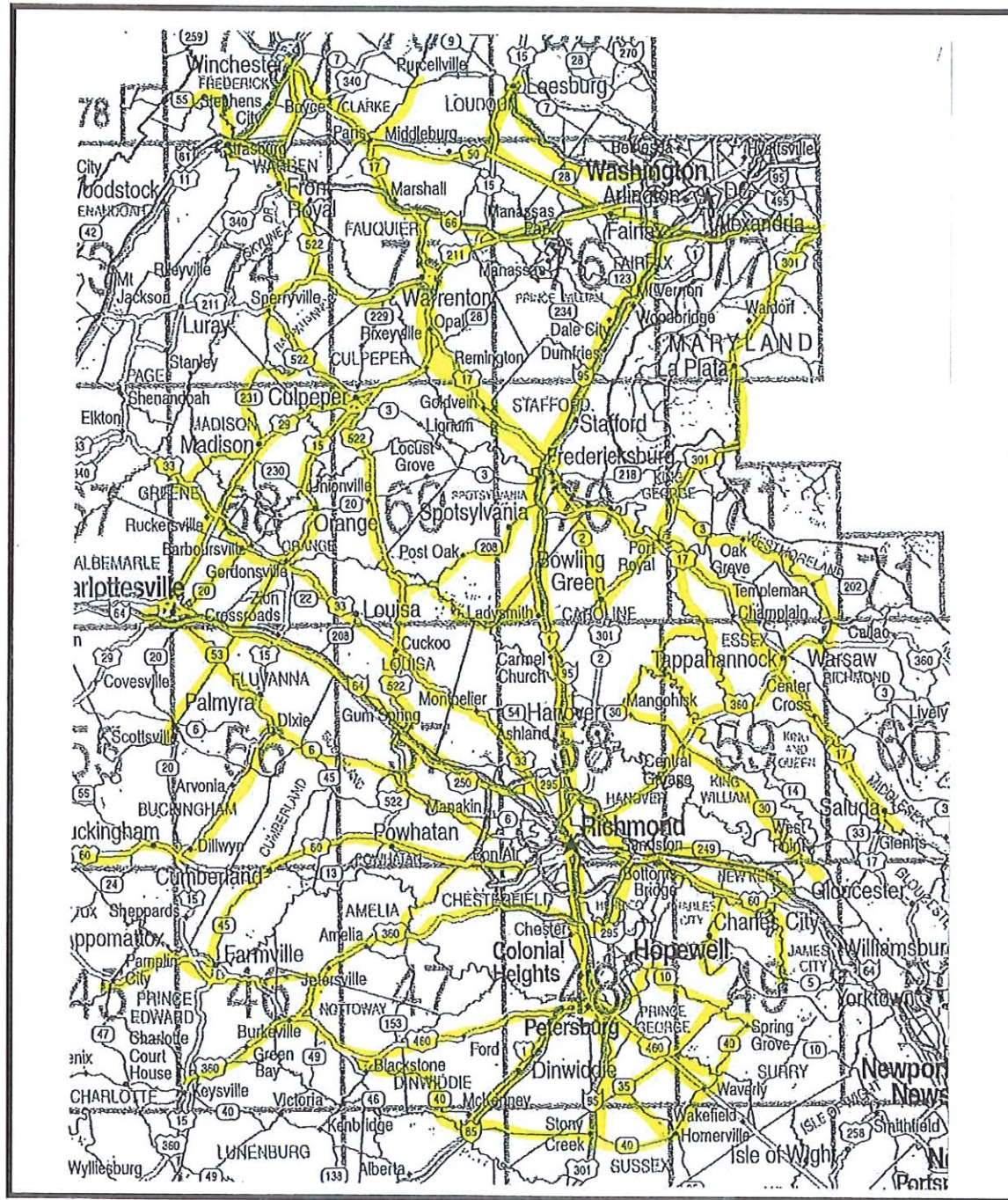


1 inch = 8,333 feet

LOCATION MAP

1:100,000

SYNAGRO



HAUL ROUTE MAP

This map highlights all major routes from the approved generators to the locations of our permitted land. The highlighted routes on our Location Map will pinpoint routes closer to the site.